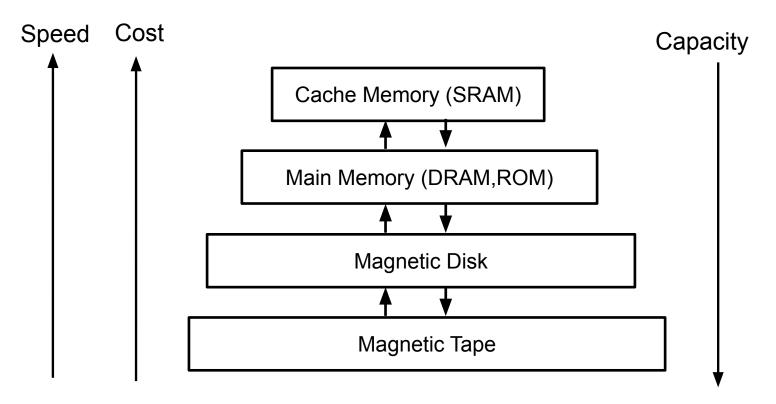
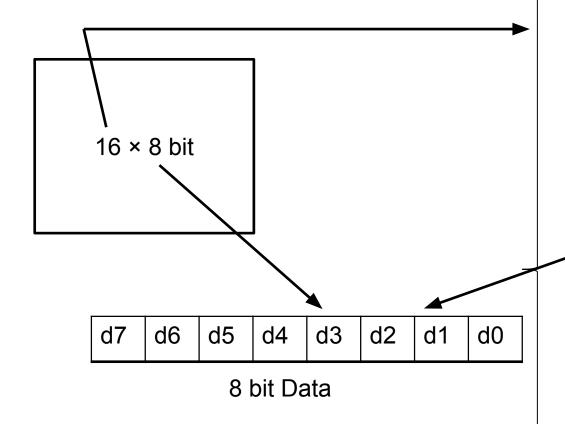
Memory Hierarchy



Memory hierarchy according to speed, size and cost

RAM and ROM Size



No. of address bits= log_2 16 = 4

No. of data bits=8

No. of address bits=16 = 4

No. of data bits= 8

Address	Data
0000	Data1
0001	Data2
0010	Data3
0011	Data4
0100	Data5
0101	Data6
0110	-Data7
9111	Data8
1000	Data9
1001	Data10
1010	Data11
1011	Data12
1100	Data13
1101	Data14
1110	Data15
1111	Data16

Memory

RAM and ROM Size contd.

128 × 16 bit

No. of address bits= = 7 bit (A6-A0) No. of data bits= 16 bit

> No. of address bits= $log_2128 = 7$ bit (A6-A0) No. of data bits= 16 bit

Thank You